| Index of | Claims |
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| Application | No. |
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09/779,919

Examiner

Mehrdad Dastouri

| App | lican | t(s) |
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GRAVES ET AL.

Art Unit

2623

| √ | Rejected | _ | (Through numeral)<br>Cancelled | N | Non-Elected  | A | Appeal   |
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| Cla                                              | aim      | Date         |          |          |          | ]            | Claim Date     |                     |              |          |    |          |          |          | ]        | CI           | aim      |                                                  |          |              | Date     |                                                  |   |                                                  |            |          |              |            |                |          |              |                                                                 |          |               |
|--------------------------------------------------|----------|--------------|----------|----------|----------|--------------|----------------|---------------------|--------------|----------|----|----------|----------|----------|----------|--------------|----------|--------------------------------------------------|----------|--------------|----------|--------------------------------------------------|---|--------------------------------------------------|------------|----------|--------------|------------|----------------|----------|--------------|-----------------------------------------------------------------|----------|---------------|
|                                                  | ā        | 4            |          |          |          |              |                |                     |              |          |    |          |          |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  |            |          | T            |            | Γ              |          |              |                                                                 |          | П             |
| Final                                            | Original | 9/25/04      |          |          |          |              |                |                     |              |          |    | Final    | Original |          |          |              |          |                                                  |          |              |          |                                                  |   | Final                                            | Original   |          | ļ            |            |                |          |              |                                                                 |          | il            |
| "-                                               | ō        | 6            |          |          |          |              | İ              |                     |              |          |    | Œ        | Öri      |          |          |              |          |                                                  |          |              | 1        |                                                  |   | 证                                                | Ö          |          | 1            |            |                |          |              |                                                                 |          |               |
| -                                                | 1        |              |          | _        | -        | -            | ╁              | $\vdash$            | ╀            | -        | 4  | <u> </u> | 51       | ├-       | -        |              |          | -                                                |          |              |          | -                                                | - |                                                  | L.         |          | ├—           | <u> </u>   | <u> </u>       | ऻ_       | <u> </u>     | $\sqcup$                                                        | <u> </u> | Ц             |
|                                                  | 2        | √            |          |          | 1        | <del> </del> | <del> </del>   | ╁                   | 1            | ┢        | 1  |          | 52       | $\vdash$ | -        | -            | ├        | ⊢                                                | <u> </u> | _            | -        | $\vdash$                                         | 1 |                                                  | 101        |          | ├—           | <b>├</b> - | <u> </u>       | ⊢        | <del> </del> | Н                                                               | -        | Н             |
|                                                  | 3        | √            |          |          | 1        | ╁            | ┼┈             | ┼─                  | $\vdash$     | ┢        | 1  |          | 53       | ┢        | ⊢        |              | -        | $\vdash$                                         |          | -            |          | ┢                                                | 1 |                                                  | 102<br>103 |          | <del> </del> | -          | <del> </del> — | ├        | -            | $\vdash$                                                        | -        | $\vdash$      |
|                                                  | 4        | √<br>√       |          |          | -        | $\vdash$     |                | $\vdash$            | -            | ⊢        | 1  | <b></b>  | 54       |          | ├        | <del> </del> | ┢┈       | ┢                                                |          | <del> </del> |          |                                                  | 1 | <del>                                     </del> | 103        |          | _            | ╌          |                | -        | -            | $\vdash\vdash$                                                  |          | Н             |
|                                                  | 5        | V            |          | -        | 1        | $\vdash$     | ╁┈             | $\vdash$            | H            | <u> </u> | 1  | <u> </u> | 55       |          | -        | <del> </del> | ┢        | ┢╌                                               |          | $\vdash$     |          |                                                  | 1 |                                                  | 105        |          | ╁            | ├~-        | $\vdash$       | $\vdash$ | ┼            | ╁┼┤                                                             | $\vdash$ | Н             |
|                                                  | 6        | V            |          |          |          | t            |                | <del> </del>        | <del> </del> |          | 1  |          | 56       |          |          | $\vdash$     |          | $\vdash$                                         |          |              |          | <del>                                     </del> | 1 |                                                  | 106        |          | -            | ├-         | $\vdash$       | ╁─       | $\vdash$     | H                                                               | H        | Н             |
|                                                  | 7        | V            |          |          | <b>†</b> | T            | T              |                     | $\vdash$     | <b>†</b> | 1  |          | 57       | ļ        | -        | T            |          | <del>                                     </del> |          |              |          | _                                                | 1 |                                                  | 107        | $\vdash$ | <del> </del> | $\vdash$   | t              | ┢        | -            | $\vdash$                                                        | <u> </u> | Н             |
|                                                  | 8        | V            |          |          |          |              |                | 1                   | T            | T        | 1  |          | 58       |          | $\vdash$ |              |          |                                                  |          |              |          |                                                  | 1 |                                                  | 108        | -        | t            | i          | <del> </del>   | $\vdash$ | ├            | Н                                                               |          | Н             |
|                                                  | 9        | √            |          |          |          |              | 1              | ļ —                 |              |          | 1  |          | 59       |          | Г        |              |          |                                                  |          |              |          |                                                  | 1 |                                                  | 109        |          | _            |            | †              | $\vdash$ |              | Н                                                               | _        |               |
|                                                  | 10       | 0            |          |          |          |              |                | Ī                   |              |          | 1  |          | 60       |          |          |              |          |                                                  |          |              |          |                                                  | 1 |                                                  | 110        | _        |              |            |                |          |              | Н                                                               |          | П             |
| L                                                | 11       | 0            |          |          |          |              |                |                     |              |          |    |          | 61       |          |          |              |          |                                                  |          |              |          |                                                  | 1 |                                                  | 111        |          |              |            | 1              |          |              |                                                                 |          | П             |
|                                                  | 12       | 0            |          |          |          |              |                |                     |              |          | ]  |          | 62       |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 112        |          |              |            |                |          |              |                                                                 |          |               |
|                                                  | 13       | √            |          |          |          |              |                | L                   | L            | _        |    |          | 63       |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 113        |          |              |            |                |          |              |                                                                 |          | П             |
| L                                                | 14       | √            |          |          |          |              |                |                     | ļ            | _        |    |          | 64       |          | Ĺ        | _            |          |                                                  |          |              |          |                                                  |   |                                                  | 114        |          |              |            |                | П        |              |                                                                 |          | П             |
|                                                  | 15       | √            |          |          | L        | ļ_           | _              |                     |              | <u> </u> |    |          | 65       | <u> </u> |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 115        |          |              |            |                |          |              |                                                                 |          |               |
|                                                  | 16       | 0            |          |          |          |              |                | ļ.,                 | _            |          | 1  |          | 66       | <u></u>  |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 116        |          |              |            |                |          |              |                                                                 |          |               |
| -                                                | 17       | 0            |          |          | ļ        | <u> </u>     | ļ              |                     | _            | _        | Į  |          | 67       | L ,      | _        |              | L        |                                                  |          |              |          |                                                  |   |                                                  | 117        | <u> </u> |              | L          |                |          |              |                                                                 |          |               |
| <u> </u>                                         | 18       | ) <          |          |          | <u> </u> | <u> </u>     | ļ              | <u> </u>            | 1            | _        | 4  |          | 68       |          |          |              |          | L                                                | _        |              |          |                                                  |   |                                                  | 118        |          |              |            |                |          | <u> </u>     | Ш                                                               |          |               |
|                                                  | 19       | 0            |          | _        | ļ        | <u> </u>     | -              | <u> </u>            | ļ            | <u> </u> |    |          | 69       |          |          |              |          |                                                  |          | _            |          |                                                  |   |                                                  | 119        |          |              | L.         | _              |          |              | ليا                                                             |          | Ш             |
|                                                  | 20       | Ó            |          |          | -        | _            | 1              | -                   |              | _        | -  |          | 70       |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 120        |          |              | L.         |                |          |              |                                                                 |          | Ш             |
| -                                                | 21<br>22 | <b>√</b>     |          |          | ⊢        | <del> </del> | ⊢              | H                   |              |          | 1  |          | 71       |          |          |              |          |                                                  | _        |              |          |                                                  |   |                                                  | 121        |          |              | <u> </u>   | _              |          |              | $\sqcup$                                                        |          | Ш             |
|                                                  | 23       | <b>√</b>     |          |          | ⊢        | -            | -              | -                   | _            | -        | -  |          | 72       |          |          | _            |          |                                                  |          | -            |          |                                                  |   |                                                  | 122        |          |              |            | ļ              | Ш        |              | Ш                                                               |          | Ш             |
|                                                  | 24       | <b>∨</b>     |          |          |          | -            | $\vdash$       | $\vdash$            |              | -        | 1  |          | 73<br>74 |          |          | -            | _        |                                                  |          |              | _        |                                                  |   |                                                  | 123        |          |              |            |                | _        |              | $\vdash \downarrow$                                             | $\dashv$ | Н             |
|                                                  | 25       | <b>∨</b>     |          |          |          | ├            | ├-             | Н                   | -            | $\vdash$ | -  | $\vdash$ | 75       | $\vdash$ |          |              |          | _                                                |          |              | _        |                                                  |   |                                                  | 124        |          |              |            |                | $\vdash$ |              | $\vdash\vdash$                                                  |          | Н             |
|                                                  | 26       | <b>√</b>     |          |          | $\vdash$ |              | -              |                     | -            | -        | 1  |          | 76       |          |          |              |          | -                                                | $\dashv$ |              | $\dashv$ |                                                  |   |                                                  | 125<br>126 | -        | -            |            |                | Н        | -            | $\vdash$                                                        |          | Н             |
|                                                  | 27       | <b>√</b>     |          |          |          |              | ╁              |                     |              |          | 1  |          | 77       | $\dashv$ | $\dashv$ |              | -        |                                                  |          |              |          | $\dashv$                                         |   |                                                  | 127        | _        | _            | _          |                | Н        |              | <del></del>                                                     | $\dashv$ | $\vdash$      |
| -                                                | 28       | √            |          |          |          |              | $\vdash$       |                     |              |          |    |          | 78       |          |          |              |          | $\vdash$                                         | $\dashv$ | $\dashv$     |          |                                                  |   |                                                  | 128        |          |              |            | -              | Н        |              | $\vdash$                                                        | $\dashv$ | $\vdash$      |
|                                                  | 29       | <b>√</b>     |          |          |          |              | $\vdash$       |                     |              | $\vdash$ |    |          | 79       |          |          | _            | _        |                                                  | -        |              | $\dashv$ |                                                  |   |                                                  | 129        |          |              | _          |                | $\vdash$ |              | $\vdash$                                                        | $\dashv$ | $\overline{}$ |
|                                                  | 30       | V            |          | _        |          |              |                |                     | _            |          |    |          | 80       |          |          | $\neg$       |          |                                                  |          | _            | $\neg$   | -                                                |   |                                                  | 130        |          |              | _          | -              | Н        |              | $\vdash$                                                        | -+       | Н             |
|                                                  | 31       | √            |          |          |          |              |                |                     |              |          | li |          | 81       |          |          |              |          |                                                  |          |              | -        |                                                  |   |                                                  | 131        |          |              |            | T              | П        |              | $\vdash$                                                        | $\neg$   | П             |
|                                                  | 32       | $\checkmark$ |          |          |          |              |                |                     |              |          |    |          | 82       |          |          |              |          |                                                  |          | -1           |          |                                                  |   |                                                  | 132        |          |              |            |                |          |              |                                                                 | $\dashv$ | П             |
|                                                  | 33       | √            |          |          |          |              |                |                     |              |          |    |          | 83       |          |          |              |          |                                                  |          | 7            |          |                                                  | İ |                                                  | 133        | $\neg$   |              |            |                | П        | _            |                                                                 | 一        |               |
|                                                  | 34       | <b>√</b>     |          |          |          |              |                |                     |              |          | 1  |          | 84       |          |          |              | П        |                                                  |          |              |          |                                                  |   |                                                  | 134        |          |              |            |                | П        |              | $\Box$                                                          |          |               |
| <u> </u>                                         | 35       | ✓            |          |          | <u> </u> |              |                |                     |              |          |    |          | 85       |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 135        |          |              |            |                | П        |              | T                                                               |          |               |
|                                                  | 36       | √            |          |          |          |              | <u> </u>       | Ш                   |              |          |    |          | 86       |          |          |              |          |                                                  |          |              |          |                                                  |   |                                                  | 136        |          |              |            |                | П        |              |                                                                 |          |               |
|                                                  | 37       | V            | _        |          | Щ.       |              |                |                     |              |          |    |          | 87       |          |          |              |          |                                                  |          |              | $\perp$  |                                                  |   |                                                  | 137        |          |              |            |                |          |              |                                                                 |          |               |
|                                                  | 38       | √            |          | _        | L.,      |              | $oxed{oxed}$   | Ш                   |              |          |    |          | 88       |          |          |              |          |                                                  |          |              |          | ]                                                |   |                                                  | 138        |          |              |            |                |          |              |                                                                 |          |               |
|                                                  | 39       | √            |          |          |          |              | <u> </u>       | -                   |              |          |    |          | 89       | _        |          |              |          | [                                                |          |              | $\Box$   |                                                  |   | ]                                                | 139        |          |              |            | $\Box$         |          |              |                                                                 |          | $\Box$        |
| <del>                                     </del> | 40       | $\sqcup$     |          | _        |          | $\vdash$     | ļ              | $\vdash \downarrow$ |              |          |    |          | 90       | _        | _        |              |          |                                                  |          | _            | _        | _                                                |   |                                                  | 140        |          |              | L,         |                | Ш        |              | $ \bot \!\!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $ | $\Box$   |               |
|                                                  | 41       | -            |          |          |          | Щ            | <u> </u>       | $\vdash \vdash$     | $\square$    |          |    |          | 91       | _        | _        | _            |          |                                                  |          | _            | _        |                                                  |   |                                                  | 141        |          | _            |            | _              |          |              | _                                                               |          |               |
|                                                  | 42<br>43 |              |          | _        | <u> </u> | $\dashv$     |                | $\vdash \vdash$     |              |          |    |          | 92       |          | _        |              |          |                                                  | $\dashv$ |              | 4        |                                                  | ļ |                                                  | 142        |          |              |            |                |          | _            | $\dashv$                                                        |          | _             |
| $\vdash \vdash \vdash$                           | 43       |              | $\dashv$ | _        |          | $\dashv$     | Н              | $\vdash \vdash$     | $\vdash$     |          |    |          | 93       |          |          |              | $\dashv$ |                                                  | _        |              | _        |                                                  |   |                                                  | 143        |          |              | _          |                |          |              | $\dashv$                                                        |          |               |
| $\vdash$                                         | 45       | $\dashv$     |          | -        | -        |              | Н              | $\vdash \dashv$     | $\dashv$     | -        |    |          | 94<br>95 | $\dashv$ | $\dashv$ |              |          |                                                  |          | $\dashv$     |          | _                                                |   |                                                  | 144        |          |              |            | _              |          | _            | _                                                               | _        | _             |
| <del>                                     </del> | 46       | $\dashv$     | -+       | $\dashv$ | -        | $\vdash$     | $\vdash$       | $\vdash \vdash$     |              |          |    |          | 96       | $\dashv$ | $\dashv$ | $\dashv$     | -        |                                                  |          |              | 4        |                                                  |   |                                                  | 145        |          |              | -4         |                | $\dashv$ |              | $\dashv$                                                        |          | _             |
| $\vdash$                                         | 47       | -            |          | -        |          |              | $\vdash\dashv$ | -                   |              |          |    | $\dashv$ | 96       | $\dashv$ | _        |              | $\dashv$ |                                                  | $\dashv$ | $\dashv$     | -        |                                                  | ŀ |                                                  | 146        |          |              |            | -              | $\dashv$ |              | $\dashv$                                                        | $\dashv$ | $\dashv$      |
|                                                  | 48       | $\dashv$     | -+       | $\dashv$ |          |              | $\vdash$       | ⊢╂                  |              |          |    |          | 98       |          | -        | -+           | $\dashv$ |                                                  |          |              | $\dashv$ |                                                  | } |                                                  | 147        |          |              |            | -              | $\dashv$ | $\dashv$     | $\dashv$                                                        | $\dashv$ | $\dashv$      |
|                                                  | 49       | +            | -+       | $\dashv$ |          |              |                | -                   |              |          | }  |          | 99       |          | $\dashv$ | $\dashv$     | $\dashv$ |                                                  | +        | $\dashv$     | -        |                                                  | ŀ |                                                  | 148<br>149 |          |              | $\dashv$   | -              | $\dashv$ | $\dashv$     | $\dashv$                                                        | $\dashv$ | $\dashv$      |
|                                                  | 50       | 一            | $\dashv$ | -        | $\dashv$ |              | Н              | $\vdash$            | $\dashv$     |          |    | -        | 100      | $\dashv$ | $\dashv$ | -            |          | $\dashv$                                         | $\dashv$ | $\dashv$     | $\dashv$ |                                                  | ŀ |                                                  | 150        |          |              |            | $\dashv$       | $\dashv$ |              | $\dashv$                                                        | $\dashv$ | $\dashv$      |
| ш.                                               |          |              |          |          |          |              |                | لــــا              |              |          | L  |          | 100      |          |          | 1            | i        |                                                  |          | 1            |          |                                                  | Į |                                                  | 150        |          |              |            |                | 1        |              | L                                                               |          |               |